

Notice of Allowability

Application No.

09/960,497

Applicant(s)

YAMATO, KATSUMI

Examiner

George Eng

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 11/29/2004.
2. ☒ The allowed claim(s) is/are 1-19.
3. ☒ The drawings filed on 24 September 2001 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

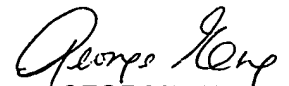
* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


GEORGE ENG
PRIMARY EXAMINER

EXAMINER'S STATEMENT OF REASONS FOR ALLOWANCE

1. Claims 1-19 are allowed.
2. The following is an examiner's statement of reasons for allowance:

Applicant's invention is directed to a radio communication system capable of realizing more flexible timeout control by dynamically setting the time out interval for each connection separately based on the state of the radio of the radio communication, which prevents excessive data frame discarding or excessive timeout interval setting (i.e., a timeout control unit regard a packet that is not received completely though one connection within a preset timeout interval as lost, wherein the timeout control unit is configured to detect whether there is a change in a number of active connections that are currently carrying out communication with radio base station, and to calculate and to set new timeout interval with respect to each connection when there is change in the active connections).

Applicant's independent claims 1 and 7 each recites, *inter alia*, a radio terminal device or a radio base station device for use in a radio communication system in which packet communications are carried out by setting up one or more connections with a structure as defined in the specification (pages 10-15) including a time counter configured to read a current time and a timeout control unit configured to store a timeout interval for each connection and a timeout timing for each connection, to update the timeout timing with a new timeout timing with respect to each connection when a received packet is not a last packet, the new timeout timing being calculated by adding the timeout interval to the current time read by the time counters and to carry out a timeout control in which a packet that is not received completely through one

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connection by the time the current time reaches the timeout timing with respect to the one connection is regarded as lost, wherein when said timeout control unit detects a change in a number of active connections that are currently carrying out communications with the radio base station, said-timeout control unit calculates a new timeout interval and sets the new timeout interval to each connection. Applicant's claims 1 and 7 comprise a particular combination of element, which is neither taught nor suggested by the prior art.

Applicant's independent claims 13 and 19 each recite the steps of reading current time, updating a timeout timing with a new timeout timing with respect to each connection when a received packet is not a last packet, the new timeout timing being calculated by adding a timeout interval to the current time being read, execute a timeout control in which a packet that is not received completely through one connection by the time, which the current time reaches the timeout timing with respect to the one connection, is regarded as lost, detecting a change in a number of active connections that are currently carrying out communications with the radio base station, and calculating and setting a new timeout interval with respect to each connection when the change in the number of active connections is detected. These steps, in combination of the remaining steps, are neither taught nor suggested by the prior art.

Accordingly, Applicant's claims are allowed for these reasons and for the reasons recited by Applicant in Amendment filed 11/29/2004.

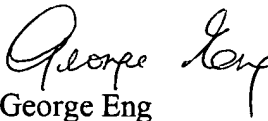
Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Eng whose telephone number is (571) 272-7495. The examiner can normally be reached on Tue-Fri 7:30 AM-6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Curtis A. Kuntz can be reached on (571) 272-7499. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


George Eng
Primary Examiner
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